30-03 p/646/61/025/611/629/601 B117/B102

Syrthrois of multi-component ...

maximum at x = 0.025 (a =  $(2.2-2.3)\cdot 10^4$  dyne/gauss·cm², no. 3), and K (K = 0.3-0.32) within the range of variation  $0.025 \leq (x = x_{opt}) \leq 0.035$  (x opt depends on the annealing temperature). The increase of K and a, obtained by the introduction of excessive Fe²+ ions is accompanied by an increase of electromagnetic and mechanical losses. The former can be considerably reduced by synthesis of multi-component ferrites with CuFe²04, when a and K remain unchanged or are increased but little. Thus the system (Ni  $_{0.85}^{\text{Cu}}$ 0.15)  $_{1-x}^{\text{Co}}$ 0.4 was obtained by substitution of Cu²+ ions for part of the Ni ions in system A. A group of compositions, Ni  $_{0.98-x}^{\text{Co}}$ 0.02  $_{0.02}^{\text{Cu}}$ 0.6  $_{0.02}^{\text{Fe}}$ 204 (Fe²03) 0.025, was synthesized on the basis of no. 3. In this case, the composition no. 4 is very interesting with x = 0.075 (a = 2.5·104, K = 0.38). A further improvement of the chemical composition of Ni-Cu-Co-ferrites was effected by the system (Ni  $_{0.925}^{\text{Cu}}$ 0.075)  $_{1-x}^{\text{Co}}$ 0.7  $_{0.925}^{\text{Fe}}$ 204 (CoFe²04) $_{x}^{\text{Co}}$ 1 In this system, the ferrite with (Ni  $_{0.925}^{\text{Cu}}$ 0.075)  $_{1-x}^{\text{Co}}$ 0.7  $_{0.98-x}^{\text{Fe}}$ 204 (CoFe²04) $_{x}^{\text{Co}}$ 1 In this system, the ferrite with (Ni  $_{0.925}^{\text{Cu}}$ 0.075)  $_{1-x}^{\text{Co}}$ 0.7  $_{0.98-x}^{\text{Fe}}$ 204 (CoFe²04) $_{x}^{\text{Co}}$ 1 In this system, the ferrite with (Ni  $_{0.925}^{\text{Cu}}$ 0.075)  $_{0.98-x}^{\text{Cu}}$ 0.075  $_{0.98-x}^{\text{Cu}$ 

Card 3/4

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

Synthesis of multi-component ...

3008 **3** \$/048/61/025/011/029/031 B117/B102

K<sub>max</sub>≈0.4). Contrary to simple ferrite systems, different annealing temperatures corresponding to the maximum values of a and K are characteristic of a number of Ni-Zn-Cu-Co and Ni-Cu-Co ferrites. It is, therefore, possible to modify the properties of ferrites by changing this temperature. The optimum values of the annealing temperature are lowered on transition from pure to industrial raw materials. This is due to impurities contained which act as mineralizers. It was possible to produce new ferrites with higher values of K, a, and Λ than were formerly known. There are 4 figures and 8 references: 3 Soviet and 5 non-Soviet. The four references to English-language publications read as follows: Ref. 1: Van der Burgt C. M., Philips Res. Repts, 8, 91 (1953); Ditto, Philips Res. Repts, 12, 97 (1957); Ditto, Philips Techn. Rev., 18, no. 10. 285 (1956/57); Weil L., Compt. Rend., 234, 1351 (1952).

Card 4/4

Synthesis of multicomponent ferrates with high values of dynamic magnetostriction parameters. Izv. AN SSSR. Ser. fiz. 25 no.11:

(MIRA 14:11)

1426-1429 N 161.

(Ferrates-Magnetic properties)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

TKACHENKO, M.K., insh.; TESLENKO, G., inzh.

Machanical gates in steel-smelting shops. Bezop.truda v
prom. 4 no.7:32 Jl '60. (MIRA 13:8)
(Dnopropetrovsk-Steelworks-Equipment and supplies)

### TKACHENKO, M.K.

Lymphangiona of the root of the tongue. Stomatologiia 42 no.4: 88 Jl-Ag \*63 (MIRA\* 17:4)

1. Iz kliniki bolezney ukha, gorla i nosa ( zav. - prof. I.M. Sobol\*)Stavropol\*skogo meditsinskogo instituta.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

TEACHEMEO, M.K., inzh.

Results of organizational work. Bezop.truda v prom.
4 no.8:29-30 Ag '60. (MIRA 13:8)

1. Dnepropatrovskiy zavod in.K.Libknekhta.
(Dr propetrovsk---Steelworks---Safety measures)

ALC NR: AP7007074

SOURCE CODE: UR/0021/66/000/008/1000/1003

AUTHOR: Karpenko, G. V. (Corresponding member AN UkrSSR); Tkachenko, M. M.

ORG: Physics-Mechanics Institute, AN UkrSSR (Pizyko-mekhanichnyy instytut AN UkrSSR)

TITLE: Possibility of applying the law of similtude with respect to the scale effect in physico-chemical mechanics

SOURCE: AN UkrRSR. Dopovidi, no. 8, 1966, 1000-1003

TOPIC TAGS: material fracture, brass, mercury, mechanical stress

SUB CODE: 20

ABSTRACT: It was established that by applying the theory of similitude it is possible to formulate equations for the purpose of calculation which enable one to simulate, under laboratory conditions, processes of fracture of samples of different diameters due to the effect of mechanical stress and an action exerted by a working medium. Geometrically similar brass samples of various diameters were subjected to an investigation in which mercury acted on the samples during mechanical testing. A criterion equation derived on the basis of dimension analysis made it possible to calculate the length of the time of action and the concentration of the medium at which equal mechanical characteristics were ob-

Card 1/2

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	tained for samples of different diameters. The calculated data were confirmed by experimental results. Orig. art. has: 1 figure and 2 formulas. /JPRS: 39,658/	
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TKACHENKO, M. 8.: Muster Med Sci (diss) -- "Morphological changes in the skin and certain internal organs of poikilothermic organisms under the influence of higher temperatures (Experimental investigation)". Khar'kov, 1958. 14 pp (Khar'kov Med Inst), 200 copies (KL, No 2, 1959, 126)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

INHEME HARO 771.V 1

USSR/Cultivated Plants. - Fruits. Borries

14.

Abs Jour

Ref Zhur - Biol., No 10, 1958, 44317

Author

: Tkachenko, M.V.

Inst

Title

: Emperiment in Building But Plantings.

Orig Pub

: Lesn. kh-vo, 1957, No 6, 77-78.

reservation prominence therefore estand business procure to be reading 

Abstract

: About 100 hectares were planted with walnut by the means of sowing onto a permanent place in the Rostov Porest form. Cherry is used for filling in the rows and current, hazelnut and smoke trees were planted in the spaces between the rows. Pre-winter hilling of the seedlings with soil in the first year after their seeding is carried out for their protection from freezing. The fruit bearing starts in the 8-10 year. -- A.Ch. Kelli

Card 1/1

- 158 -

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### PHASE I BOOK EXPLOITATION 819

- Timofeyev, Valentin Leont'yevich and Tkachenko, Mikhail Kondrat'yevich
- Proizvodstvo martenovskoy stali; uchebnik dlya shkol i kursov masterov (The Production of Open-hearth Steel; a Textbook for Schools and Courses for Foremen)
  Khær'kov, Metallurgizdat, 1957. 13,000 copies printed.
- Resp. Ed.: Zaykov, S.T.; Ed. of Publishing House: Liberman, S.S.; Tech. Ed.: Andreyev, S.P.
- PURPOSE: The book is a textbook for schools and for a special two and one half year training course for foremen employed in foundries using the open-hearth process in the production of steel. It may also be of use to engineering and technical personnel, and steel workers of open-hearth plants.
- COVERAGE: In a systematic way the authors develop the underlying principles of the theory and practice of the basic and acid open-hearth processes of producing steel. They also discuss methods of pouring steel, the properties of castings, the construction and maintenance of open-hearth furnaces, furnace heating systems and their automatic control, general control of the steel-making process, and cost of production and ways of reducing it. There are 28 references, 25 of which are Soviet, 2 German and 1 English.

Card 1/6

	<u> San San San San San San San San San San</u>
The Production of Open-hearth Steel	819
•	
TABLE OF CONTENTS:	
Introduction	5
Ch. I. Fuels Used in Open-hearth Furnaces	6
1. Liquid fuels	6
2. Gaseous fuels	9
Ch. II. Refractories	13
1. Acid refractory materials	14
2. Basic refractories	
3. Aluminosilicate refractory products	19
4. Chamotte refractory products	19
5. Semiacid refractories	19
6. High-alumina products	20
7. Heat-insulation materials	20
8. Refractories and refractory mortars	21 21
9. Storage of refractories	51
Card 2/6	
· · · <b>然</b>	

The Pi	roduction of Open-hearth Steel	819
Ch. II	II. Raw Materials for the Open-hearth Process	23
1.	Pig iron	23
2.	Iron-steel scrap	25
3.	Oxidizers	28
4.	Fluxes	29
5.	Reducing agents	31
		<i>ــر</i>
Ch. IV	. Designs of Open-hearth Furnaces	37
1.	Hearth chambers	37
2.	Open-hearth furnace ports	43
۶.	Slag pockets	49
4.	Regenerators	49 52
5.	Valves and flues	55
	Draft	57
	Waste-heat boilers	58
8.	Evaporation cooling	57 58 58
ch. v.	Technology of Smelting Steel in Open-hearth Furnaces	61
ı.	Basic open-hearth process	61
	Basic concepts from physical chemistry	81
Card 3	16	

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

3.	Oxidizing and reducing processes	94
4.		99
5.		101
	Calculation of the charge	104
7.		113
Ch. VI	. Pouring of Steel	115
1.	Auxiliary devices for pouring steel and preparing channels	116
2.	Preparation of channels for pouring the heat	124
3.		128
4.	Crystallization of liquid steel and the structure of the ingot	132
5.	Defects in steel ingots	135
6.	Continuous casting of steel	140
7.	Steel casting in vacuo	142
	I. Arrangement of Open-hearth Plants	143
	Plants with charging (rail) buggies	143
2.	Plants with charging-floor cranes	146
ch. VI	II. Thermal Processes in an Open-hearth Furnace Principles of the mechanics of furnace gases and determination	147
	of losses	149

The Production of Open-hearth Steel 819	
2. Natural draft, or floatability of hot gases	149
3. Heat exchange in an open-hearth furnace	151
4. Heat regime of open-hearth furnaces	155
Ch. IX. Automation of the Heat Regime	159
1. Control and measuring instruments	159
2. Automatic regulation of the heat regime	169
Ch. X. Gas Producers	178
Ch. XI. Repairing Open-hearth Furnaces	180
1. Cold repair work on open-hearth furnaces	180
2. Sintering the furnace with refractory materials	191
3. Hot repair work on furnaces	193
4. Caring for the furnace	193
5. Troubles and breakdowns during furnace operation	196
Ch. XII. Technical Control in Open-hearth Steel Production	199
1. Inspection of raw materials	199
2. Inspection of steel melting and casting processes	200
Card 5/6	

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

	The Production of Open-hearth Steel 819	İ
·	<ol> <li>Inspection of metal and slag composition</li> <li>Inspection of ingots; detection of defects and their correct</li> </ol>	201 tion 204
	Ch. XIII. Steel Production Cost and Ways of Reducing It	207
	Bibliography	210
	AVAILABLE: Library of Congress	
	Card 6/6	
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	GO/fal 12/8/58	

5/148/62/000/011/003/013 E079/E151

**AUTHORS:** 

Batalin, G.I., and Tkachenko, M.S.

TITLE:

On the problem of nitriding of manganese

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya

metallurgiya, no.11, 1962, 76-79.

The effect of gas velocity, particle size, and temperature on the nitriding of manganese in a stream of ammonia was investigated. It was found that the velocity of the ammonia stream had no influence on the nitriding process. The influence of the particle size could be described by

Y = 10.4 - 0.59 n

where Y = increase in weight (nitrogen content) and n = particlesize, mm. The velocity of the process was measured at 650 and 830°C, and was found to increase twofold on increasing the temperature from 650 to 830 °C. Metallographic investigation of nitrided specimens showed good agreement with the phase diagram of the system Mn-N2.

Card 1/2

CIA-RDP86-00513R001755920007-5" APPROVED FOR RELEASE: 07/16/2001

On the problem of nitriding of ... S/148/62/000/011/003/013 E079/E151

There are 5 figures.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet

(Kiev State University)

SUBMITTED: March 14, 1961

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

BATALIN, G.I.; TKACHENKO, M.S.

的医用的结果的现在分词形式的现在分词使用的结果的 计可能性 "我们是不是一个人的,我们就是这个人的,我们们是一个人的人,我们们是这种人的

Mitriding of manganese. Izv.vys.ucheb.zav.; chern.met. 5 no.11: 76-79 '62. (MIRA 15:12)

1. Kiyevskiy gosudarstvennyy universitet.
(Manganese) (Case hardening)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

USSR / Forestry. Forest Crops.

K

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 100193

Author : Thachenko, M. V.
Inst. : Not given

Title : A Green Belt Around Rostov-on-Don

Orig Pub : Lesn. kh-vo, 1958, No 5, 29-32

Abstract : No abstract given

Card 1/1

enderbreken somfrem gret som men som bet stem en men set i bets

TKACHENKO, M.Ye.; BUCHATSKIY, M.A.; MIKHAYLOVA, N., redaktor; KHIGIROVICH, I., tekhnicheskiy redaktor

[The cultivation of foxtail millet and its use for farming purposes]
Kul'tura chumizy i ispol'zovanie se dlia khoziaistvennykh tselei.
Alma-Ata, Kazakhskoe gos. izd-vo. 1950. 14 p. (MLRA 10:1)
(Millet)

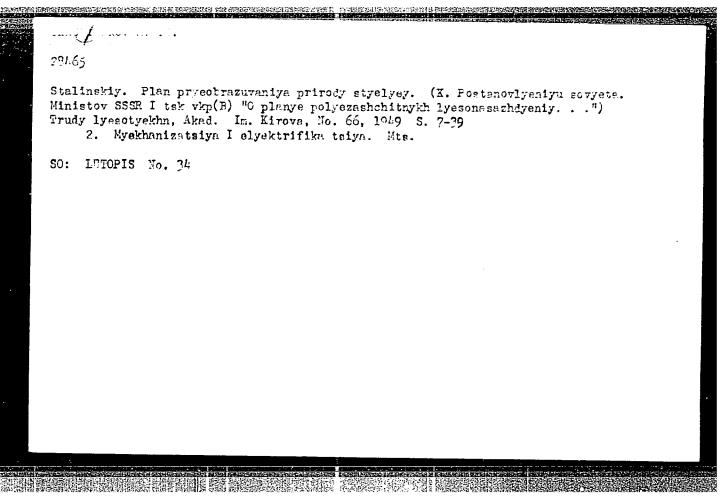
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THACHENKO, M. Ye., Ed.

Less Urala (Forests of the Ural) Sverdlovsk, Izd-vo Ural'skogo Filiala Akademii Nauk SSSR, 1948.

230 P. Illus., Maps, Tables.
At Head of Title: N. N. Glushkov, V. I. Vengerov, (i dr) Akademiya Nauk SSSR, Ural'skiy Filial.

SO: 7N/5
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	inditation 1. 10
	TRACHENKO M. Ye "The rationalization of forestry of the Urals and other areas of the USSR in forests of the third group" sbornik naych. trudov (Ural'dkiy Lesotekhn int), Moscow- Leningrad 1948 -p. 5-11
	30: U- 3261 10 April 53, (Lepis 'Zhrual 'mykh Statey No 11 1949)
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Tkachenko, M. Ye.	"General Forestry" (text- book, 2d edition)	

TKACHENKO, N.

Electromagnetic flowmetor. Koks i khim. no.8:54 '62. (MIRA 17:2)

1. Gorlovskiy koksokhimicheskiy zavod.

TRACHENKO, N.

85-58-5-24/38

AUTHOR: Tkachenko, N., Master of Sports (Kiyev)

Sportsmen's Suggestions (Sportsmeny predlagayut) TITLE:

PERIODICAL: Krylya rodiny, 1958, Nr 5, p 19 (USSR)

ABSTRACT: The author states that the improvements in jump techniques in recent years make necessary a remote-control device for opening the parachute pack without sacrificing form in order to pull the rip cord ring, and an automatic time register for re-cording the duration of the free fall delayed drops. He describes a new automatic device developed by the Tsentral'nyy aeroklub Ukrainy (Ukrainian Certral Aeroclub) and consisting of a housing, a timer, a system of levers, and 2 cables, which performs both . functions. The designers used the housing and some parts of the PAS-1. The simplicity of the new device any aeroclub to produce it. Adoption of the device for training practice and industrial; production is urged. There is one diagram.

ASSOCIATION: Tsentral'nyy aeroklub Ukrainy (Ukrainian Central Aeroclub)

AVAILABLE: Library of Congress
Card 1/1 1. Aviation - USSR 2. Parachute jumping - Techniques

KUSHNIR, M., inzhener; TKACHENKO, N., inzhener.

Group arrangement of grain dryers of the All-Union Scientific Research Institute of Agricultural Machine Building at grain procurement stations of Akmolinsk Province. Muk.-elev.prom. 22 no.1:9-11 Ja '56. (MLRA 9:5)

(Akmolinsk Province--Grain--Drying)

Wolynskiy, V.I.; TRACHENKO, N.A.

Ways of improving the balanced erection method of concreting during the building of large-apan bridges. Avt. cor. 27 no.417-8 Ap '64. (MIRA 17:9)

VOROB'YEV, D.D.; DARIYENKO, V.I.; PILYASOV, F.L.; TKACHENKO, N.A.

Experience in cleaning unclassified coal in a jigging machine of new design. Koks i khim, no.1:14-17 '60. (MIRA 13:6)

1. Gorlovskiy koksokhimicheskiy zavod. (Coal preparation)

DAVIDKOVICH, A.S., inzh.; TKACHENKO, N.A., inzh.; GEYZENBLAZEN, B.Ye., inzh.; GONCHAROV, Yu.G.; AFANAS'YEV. V.D.; inzh.; RUDOY, V.S., inzh.; KONCGRAY, B.Ya., inzh.

Investigating the electroacoustic method of controlling the loading of ball mills. Gor. zhur. no.5:50-51 My '65. (MIRA 18:5)

1. Trest po avtomatizatsii metallurgicheskikh predpriyatiy "Metallurgavtomatika", Dnepropetrovsk (for Davidkovich, Tkachenko Geyzenblazen, Goncharov). 2. Nauchno-issledovatel'skiy gornorudnyy institut (for Afanas'yev, Rudoy, Konogray).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

TRACHENKO, N.A.; SHKUROVSKIY, I.G.

Continuous processing of tar for hard pitch. Koka i khim. no.8:44-47 '56.

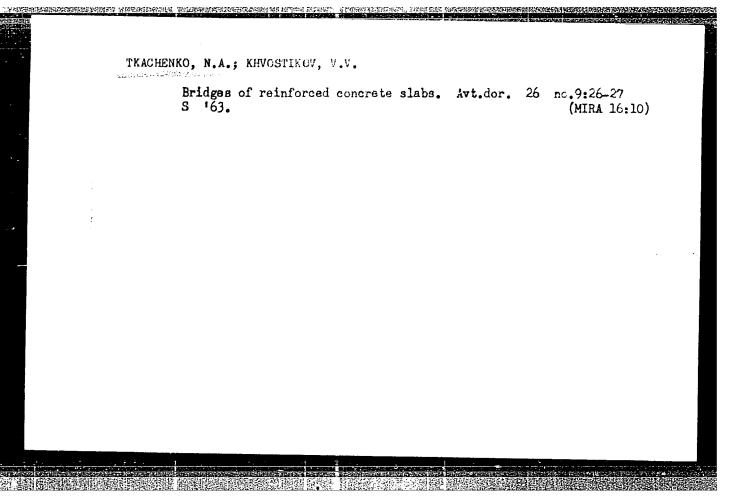
(MIRA 10:1)

1. Gorlovskiy koksokhimicheskiy zavod.
(Pitch) (Goal tar)

[Design and construction of a bridge built by the convilever convicte placing mathod] Proektirovanie i streitelistvo mosta, scoruzhaemogo metodom navesnogo

TRACHENKO, N.A.; VOLYNEKIY, V.I.; ABRAMKIN, I., red.

betonirovanija. Minsk. Belomusskoe respubl. pravlenie NIO gor. khoz. i avtomobilinego transp., 1964. 155 p. (MIRA 18:4)



IMAGHERINA, NIT

#### PHASE I BOOK EXPLOITATION SOV/5510

- Drozd, Yakov Ivanovich, Nikolay Alekseyevich Tkachenko, Il'ya Markovich Gel'fman, Vladimir Iosifovich Volynskiy
- Opyt proyektirovaniya i stroitel'stva zhelezobetonnykh predvaritel'no napryazhennykh mostov v Belorussii (Experience in the Design and Construction of Prestressed Reinforced Concrete Bridges in Belorussia) Minsk, Redizdat otdel BPI im. I. V. Stalina, 1960. 281 p. Errata slip inserted. 2,500 copies printed.
- Sponsoring Agency: Ministerstvo vysshego, srednego spetsial'nogo i professional'nogo obrazovaniya BSSR. Belorusskiy politekhnichekkiy institut imeni I. V. Stalina.
- Ed. (Title page): Ya. I. Drozd, Honored Scientist and Technologist BSSR; Ed. of Publishing House: N.V. Kapranova; Tech. Ed.: P.T. Kuz'menok.

PURPOSE: This book is intended for designing engineers and manufacturers of prestressed bridge components.

Card 1/8

Experience in the Design and Construction (Cont.)

COVERAGE: The book provides a generalized discussion of experience gained in the production of prestressed bridge components and the aspembly of prestressed bridges in Felorussia. Special attention is given to the production, preparation, and wounting of prestressed components. Chapters VI and VII were written by Ya. I. Drozd; Ch. III and the Appendixes by N.A. Tkachenko; Ch. II by I.M. Gel'fman; Chs. IV and V by V.I. Volynskiy. The authors thank Ya. D. Livshits, Doctor of Technical Sciences, Engineer I.I. Grigorovich, Head of the Gushosdor (Main Administration of Highways) of the Council of Ministers of the BSSR, and A.F. Krayukhin, Engineer. There are 37 references, all Soviet (including 2 translations).

TABLE OF CONTENTS:

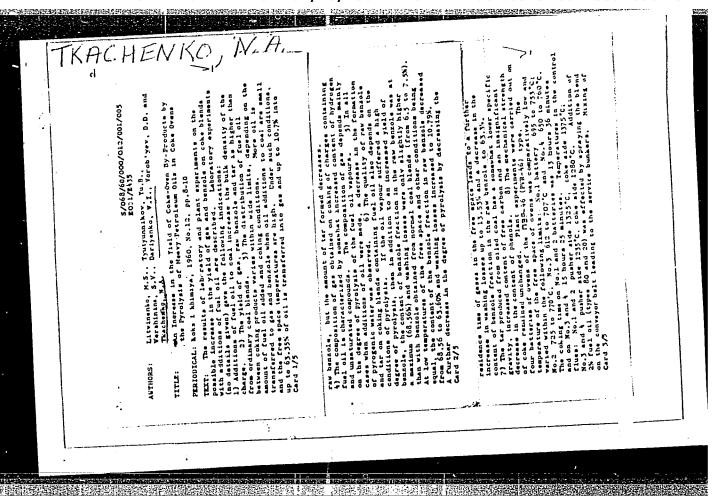
Foreword

3

	PART A. DESIGN SOLUTIONS	
2. 3.	Purpose and Selection of the Design Layout of a Bridge General considerations Brief characteristic of the crossing site and the river regime Geological conditions and the hydraulics of the crossing Engineering norms and initial designing data	5 6
Card 2	<b>/8</b> _s	

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5



An Increase in the Yield of Coke-Oven By-Products by the Pyrolysis of Heavy Petroleus Oils in Coke Ovens the Pyrolysis of Heavy Petroleus Oils in Coke Ovens the Pyrolysis the bland was done by 6 disc ploughs placed under the conveyor. The compestion and properties of the coal bland pior to and during the experiental portods are given in Table 1 (anistue 10% rolatis enter 26 to 2%, "but fraction 90 posts.) The increase in the bulk density of the charge (from 760 to 751 kg/m) required higher flue temperatures, these were increased (by 10°C) insufficiently due to the proof of the overs. Nechanical was some increased in the proportion of large frections (above 60 mm) raw gas increased in the proportion of large frections (above 60 mm) raw gas increased from 40.5 gray of large frections (above 60 mm) raw gas increased from 40.5 gray to 48 to 50 g/m <sup>3</sup> . The composition of the forest of the composition of the frects of the composition of the free free primary of tar decreased by 0.017 and the yished of its primary of tar decreased by 0.017 and the yished of its primary condensers somewhat changed: Its specific grayty	increased by 0.015 and the yield of light fractions decroesed by 4.7%, 18 pecific gravity decreased from 0.075 to 0.072; the conference of the bancols fraction decreased from 58.3% to 67.35%; the of toluoi increased from 15.06 to 15.35%, 9.22% of toluoi increased from 15.06 to 15.35%, 9.22% of toluoi increased from 15.06 to 15.35%, 9.22% of the only of the old of 0.0% into ter. It is concluded that in order to output 0.5 m. in the respection of the old old only perfectionsed at the respection of the old old which can be a resultand of the ach individual works. The following perfectionsed at the work:  L.A.Vanhtendo, 5.D.Broushly, W.E.Illymanylov, M.T.Per A.T.W. Vallakly lov, M.T.Minkhylov, M.T	
3,	<b></b>	

TKACHENKO, N.A.; VOLYNSKIY, V.I.

Placing concrete for the span of a large bridge from suspended units. Avt.dor. 26 no.4:12-14 Ap '63. (MIRA 16:4)

(Bridge construction) (Bridges, Concrete) ,

LITVINENKO, M.S.; TYUTYUNNIKOV, Yu.B.; VERSHININA, S.V.; DARIYENKO, V.I.; VOROB'YEV, D.D.; TKACHENKO, N.A.

HINE CONTROL OF THE PROPERTY O

Increase of the yield of coke-chemical products by the pyrolysis of heavy petroleum oils in coke ovens. Koks i khim. no.12:8-10 (MIRA 13:12)

1. Khar kovskiy nauchno-issledovatel skiy uglekhimicheskiy institut (for Vershinina). 2. Gorlovskiy koksokhimicheskiy zavod (for Tkachenko). (Coke industry-By-products)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

TKACHENKO, N.A., inzh.

A prestressed concrete bridge has been tested. Avt. dor. 28 no.1:14-15, 19 Ja '65. (MJFA 18;3)

```
TEACHEREO, N.I.; TSALIKOVA, E.V.; IVAREVA, Z.T.

Sasts water of hydrelycis clants processing cottonseed buils.
Gidroliz. i lesokhd.prom. 10 no.5:11-13 '50. (FIR. 10-3)

1.Vsesoyuznyy nauchno-iseledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promethannosti.
(Water--Waste) (Hydrolysis)
```

TKACHENKO, N.I., elektromekhanik

Method for checking the output limitation of I GIO devices.

Avtom. telem. i sviaz' 8 no.2:34-35 F '64.

(MIRA 17:6)

l. Lozovskaya distantsiya signalizatsii i svyazi Yuzhnoy dorogi.

DRUBLYANETS, E.E., kand. biol. nauk; TKACHENKO, N.I., kand.biol. nauk; STAROSTINA, Z.I., nauchn. red.; SHENDAREVA, L.V., tekhn. red.

[Improvement of the biological system of purification of the waste waters of hydrolysis plants] Sovershenstvovanie rezhima biologicheskoi ochistki stochnykh vod gidroliznykh zavodov. Moskva, TSentr. in-t tekhn. informatsii i ekon. issledovanii po lesnoi, bumazhnoi i derevoobrabatyvaiushchei promyshl., 1963. 35 p. (MIRA 17:4)

TKACHENKO, N.I. (Leningrad); YUDINA, T.A. (Leningrad)

Survival rate of Escherichia coli in the water waters of hydrolysis plants. Vod. i san. tekh. no. 4:31-32 Ap '61. (MIRA 14:4) (Escherichia coli) (Sewage-Microbiology)

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TKACHEUKO, N. I., MINAMEV, V. M., BIROVA, N. I., STAPODURTSEVA, G. I., GREMPOVEKIMA, A.  $\overline{V}$ ., SHAMARINA, A. G., KOROVINA, A. G.

"A study of the natural foci of vernal encertalitis in the western Urals." Page 79

Desyatoye soveshcahiyepo parzitlolgicheskim problemam i prirodnoochagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Farasitological Froblems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

Perm' Inst. Of Vaccines and Sera and the Oblast Sanitary-Epidemiological Station

处,这是在此类的现在分词,这是有效的,我们可以是一种的人的意思。在一个的一个的人,也不是一个的人,这个人的人,也是一个的人,这个人的人,也是一个人的人,也是一个

DRUBLYANETS, E.E.; TKACHENKO, N.I.; IVANOVA, Z.T.

Features of the fermentation of wood hydrolyzates by Schizosaccharomyces Pombe. Trudy Inst. mikrobiol. no. 6:203-211 '59. (MIRA 13:10)

TKACHENKO, N.I.; DRUBLYANETS, E.E.

Sphaerotilus dichotowus, organism causing the "swellign" of activated sludge in aeration tanks. Mikrobiologiia 28 no.5:763-767 S-0 '59.

(MIRA 13:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'-fito-spirtovoy promyshlennosti, Leningrad.

(SPHAEROTILUS)

(SEWAGE)

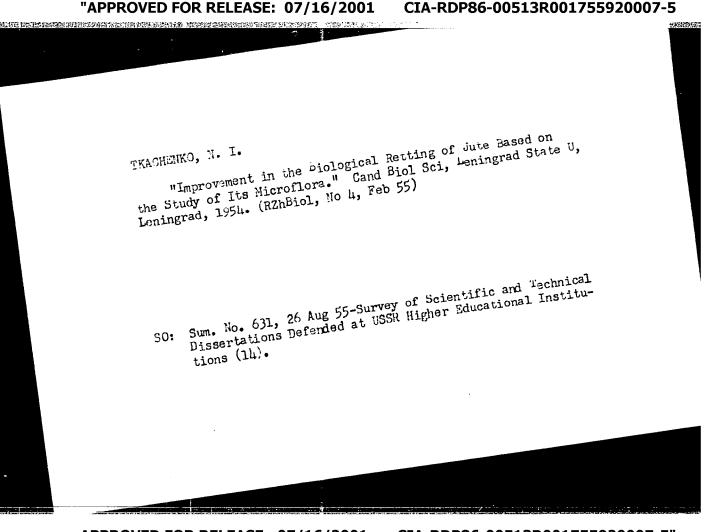
STUKANOV, Leonid Aleksandrovich; TKACHENKO, N.I., redaktor; RODIONOVA, Z.A. redaktor; DZHATIYEV, S.G., tekhnicheskiy redaktor

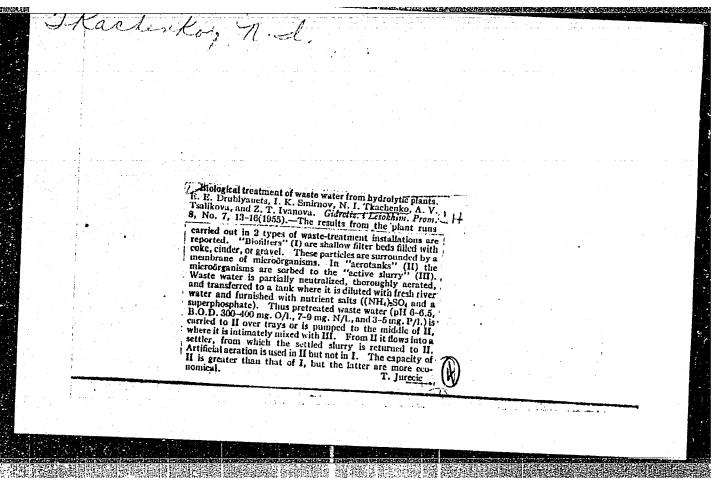
[Teaching mechanical drawing in the secondary school; experience of a teacher] Opyt prepodavaniia chercheniia v srednei shkole; iz opyta raboty uchitelia. Pod red. N.I. Tkachenko. Moskva, Gos. uchebno-pedagog. izd-vo M-vs prosv. RSFSR, 1956. 66 p. (MIRA 10:4) (Mechanical drawing-Study and teaching)

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TKACHENKO, N.I. CHERNYAYEV, S.I., redaktor; TWACHENKO, W.I., redaktor; RODIONOVA, Z., redaktor; HYBIN, I.V., tekhnicheskiy redaktor [Teaching mechanical drawing in the secondary school] Iz opyta prepodavaniia chercheniia v srednei shkole; sbornik statei. Moskva, Gos. uchebno-pedagog. izd-vo M-va orosv. RSFSR, 1956. 106 p. (MIRA 10:4) (Mechanical drawing -- Study and teaching)

> CIA-RDP86-00513R001755920007-5" APPROVED FOR RELEASE: 07/16/2001





TKACHENKO, N.I.

Yeastlike coganisms of biofilters purifying sewage in hydrolysis plants. Mikrobiologiia 32 no.3:526-528 My-Je'63 (MIRA 17:3)

1. Gosudarstvennyy nauchmo-issledovatel'skiy institut gidro-liznoy i sul'fitno-spirtovoy promyshlennosti, Leningrad.

SECTION OF SECTION ASSESSMENT OF THE PROPERTY 
# TKACHENKO, N.I.

Distribution of micro-organisms in the biofilter cleaning the sewage waters of a hydrolysis factory. Mikrobiologiia 29 no.2:253-258 ½-Ap 160. (MTRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti (VNIIGS), Leningrad.

(INDUSTRIAL WASTES--MICROBIOLOGY)

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TKACHENKO, N.I.; IVANOVA, Z.T.

Studying the composition of the wastes of yeast production.

Gidroliz. i lesokhim. prom. 18 no.5:13-14 165. (MIRA 18:7)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti.

VORONIN, P.S., inzh.; TKACHENKO, N.I., inzh.

Using twin guns for the spot welding of automobile fenders.
Avtom. svar. 17 no.11:78 N '64 (MIRA 18:1)

1. Zaporozhskiy avtomobil'nyy zavod.

RUDNYY, N.M., kand.tekhn.nauk; MASLOVSKII, V.V., inzh.; TKACHENKO, N.K., inzh.

Device for measuring direct current in electrolysis networks.

Vest. elektroprom. 31 no.9:68-71 S '60. (MIRA 15:5)

(Electrolysis)

ZISLINA, N.N.; NOVIKOVA, L.A.; TKACHENKO, N.M.

Electrophysiological study of inhibitory and excitatory influences of the hippocampus. Fiziol. zhur. 49 no.1:5-15 Ja '63. (MIRA 17:2)

l. Elektrofiziologicheskaya laboratoriya Instituta defektologii Akademii pedagogicheskikh nauk RSFSR, kafedry vysshey nervnoy deyatel'nosti Gosudarstvennogo universiteta imeni Lomonosova, Moskva.

5(1)

AUTHORS:

Epshteyn, D. A., Zkuchenko, N. M., SOV/20-122-5-35/56

Miniovich, M. A., Dobrovol'skaya, N. V.

TITLE:

A Two-Stage Catalyst for Oxidation of Ammonia (Dvukhstupenchatyy katalizator okisleniya ammiaka)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 5,

pp 874-877 (USSR)

ABSTRACT:

Catalysts for the oxidation of ammonia to nitric oxide can be divided according to their chemical composition into platiniferous and non-platiniferous catalysts. The latter include iron, cobalt, chromium oxides and oxides of other metals. In industry platiniferous catalysts are used almost exclusively, although they are less accessible and more expensive than non-platiniferous ones and involve large irrecoverable losses. But they are stable and guarantee a high degree of transformation of ammonia to nitric oxide (97-98% yield of N2O). Both groups of catalysts have a great power of selectivity. The question arises as to the conditions under

which non-platiniferous catalysts retain their high selectivity without change for a period of time that would meet industrial requirements. The first and second author studied the oxidation

Card 1/3

A Two-Stage Catalyst for Oxidation of Ammonia

SOV/20-122-5-35/56

of ammonia with several non-platiniferous catalysts (Ref 1). Because of various difficulties it was decided to place a standard platinum grid in front of the non-platiniferous catalyst so that the latter contacts a partly reacted mixture. By means of a sight glass it was discovered that the nonplatiniferous catalyst, which formerly would hardly glow. soon started to operate again under these conditions. The yield of nitric oxide rose to its original level (98%) and remained there for a long time without dropping: under all other optimum conditions the non-platiniferous catalyst reached stability. It was obvious that the drop of activity and selectivity of the non-platiniferous catalyst was due to a change in its frontal layer, that comes into contact with the new air-ammonia mixture. The great amount of heat created and the ever present poisonous components inactivate the frontal layer. If a platinum grid is used, comparatively little heat is created because of the reduced ammonia concentration and a part of the poison is neutralized by the platinum. The authors have conducted experiments under different conditions and with grids of different densities . The results are given in table 1. From this study the conclusion may be drawn that some nonplatiniferous catalysts equal platiniferous catalysts with

Card 2/3

A Two-Stage Catalyst for Oxidation of Ammonia

SOV/20-122-5-35/56

respect to their selectivity. They possess a higher stability;

when part of the ammonia was previously oxidized at a

platiniferous catalyst. A possible mechanism of reaction had been discussed before (Ref 3). There are 1 table and 3 Soviet

references.

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy

institut azotnoy promyshlennosti (State Scientific and

Planning Research Institute of Nitrogen Industry)

PRESENTED:

June 9, 1958, by S. I. Vol'fkovich, Academician

SUBMITTED:

June 6, 1958

Card 3/3

TKACHENKO, N.M., inzh.

Stimulating the students' interest for industrial chemistry ("Visual aids on industrial chemistry for secondary schools; description of aids and methods for their use" by D.A.Bpshtein.
Reviewed by N.M.Tkachenko). Khim.v shkole 14 no.4:84-85
J1-Ag '59.

(Chemistry, Technical--Audio-visual aids)

(Epshtein, D.A.)

EPSHTEYN, D.A.; TKACHENKO, N.M.; MUNIOVICH, M.A.; DOBROVIL'SKAYA, N.V.

Two-stage catalyst for the oxidation of ammonia. Dokl.AN SSSR 122 no.5:8744877 0 58. (MIRA 11:11)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti. Predstavleno akademikom S.I. Vol'fkovichem. (Ammonia) (Oxidation) (Catalysts)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

# TKACHENKO, N.N.

Experimental plant-breeding station in Krymsk is 25 years cld. Kons.i ov.prom. 16 no.4:35-36 Ap 161. (MIRA 14:3)

REZNIKOV, Fedor Illarionovich; TKACHENKO, N.N., red.; BYKOVA, G.N., tekhn.red.

[History of Kholmogory cattle] Istoriis kholmogorskogo skotovodstva. Arkhangel'sk, Arkhangel'skoe knizhnoe izd-vo, 1957.
271 p. (Cattle breeds)

KOSTSOVA, A.G.; TKACHENKO, N.N.; YEVSEYEVA, I.I.

Alkanesulfonic acids. Part 24: Acetylation of some N-aryl amides of alkanesulfonic acids in the presence of aluminum chloride. Zhur.ob.khim. 31 no.7:2241-2246 Jl '61. (MIRA 14:7)

1. Voronezhskiy gosudarstvennyy universitet. (Sulfonic acid) (Amides)

Effect of spinal hemisection vascmotor reflexes of the hind legs

Heffect of spinal hemisection vascmotor reflexes of the hind legs
in dogs [with summary in English]. Piziol.zhur. 44 no.41356-364
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Use of similarity criteria in the physicochemical mechanics of materials. Fiz.-khim. mekh. mat. 1 no.1:82-84 (65. (MIRA 19:1)

1. Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov. Submitted August 10, 1964.

GUTMAN, E.M.; KARPENKO, I.V.; TKACHENKO, N.N.

Effect of the scale factor on the strength of metals in anodic dissolution, and the similarity condition. Fiz.-khim. mekh. mat. (MIRA 19:1) 1 no.1:85-89

1. Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov. Submitted September 15, 1964.

TKACHENKO, N.N.; VASILENKO, 1.1.; KARPENKO, G.V.

Modeling the corrosive effect of a working medium on the strength of geometrically similar specimens. Fiz.-khim. mekh. mat. 1 no.5: 539-541 '65. (MIRA 19:1)

1. Fiziko-mekhanicheskiy institut AN UkrSER, L'vov. Submitted April 14, 1965.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

TEACHERRO, N.N.; Hetrasovich, A.V.; Kamersko, G.V.

Effect of the type of loading on the corresion-fatigue strength of steel. Fiz.-khim. mekh. mat. 1 no.5:626-621 (c).

(MJRA 19:1)

1. Fiziko-mekhanjcheskly institut AN UkrCCR, L'voz. Cabalited May 10, 1965.

VASILENKO, I.I.; KARPENKO, G.V.; MIKITISHIN, S.I.; TKACHENKO, H.S.

Reversible and irreversible hydrogen brittleness. Fiz.-khin. mekh.
mat. 1 no.5:624-625 165. (MFR 19:1)

1. Fiziko-mckhanicheakiy institut AN UkrSCR Livov. Sabmitted
June 16, 1965.

(MIRA 17:7)

TKACHENKO, N.O.; LARIONOVA, Z.K.; MERKULOVA, Z.N.; GORDIYCHUK, M.T.

[Hordiichuk, M.I.]

Deresination of felt cones. Leh. prom. nc.2: 29-30 Ap-Je 164.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

TKACHENKE, N.S.

137-58-5-11110

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 315 (USSR)

AUTHORS: Tkachenko, N.S., Sakunov, V.I.

TITLE: Determination of Arsenic in Iron Manganese Ores and Sinters

(Opredeleniye mysh'yaka v zheleznykh margantsevykh rudakh

i aglomeratakh)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii. Ukr. resp.

pravl., 1956, Vol 4, pp 125-126. Comments, pp 131-137

ABSTRACT: A weighed portion of ore is fused with Na<sub>2</sub>CO<sub>3</sub> and ZnO and

is then leached in H<sub>2</sub>SO<sub>4</sub> (1:4) in the presence of H<sub>2</sub>C<sub>2</sub>O<sub>4</sub>. KBr, HCl, and hydrazine sulfate or hydrazine chloride are added, and the As is driven off by distillation. After evaporating the distillate with HNO<sub>3</sub> and adding a molybdate-hydrazine mixture, the solution is heated to the boiling point, is allowed to cool.

and is then analyzed by colorimetric methods.

1. Arsenic--Determination 2. Ores--Test methods

3. Colorimetry--Applications

Card 1/1

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Friction of bronze against bronze at different speeds and loads.

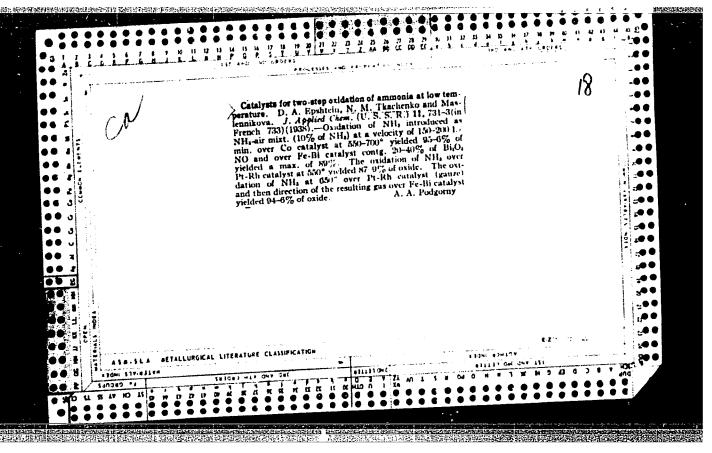
Izv. vys. ucheb. zav.; fiz. no.2:171-173 '58. (MIRA 11:6)

1.Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosuniversitete im. V.V. Kuybysheva.

(Bronze--Testing) (Friction)

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TKACHENKO, N.M.

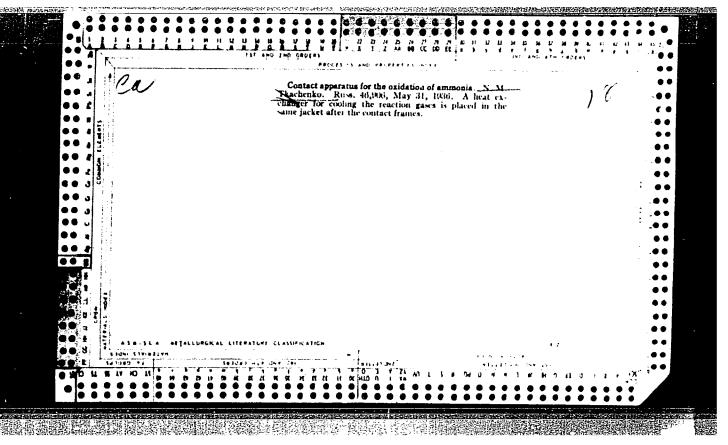
Prevent gas escape beyond casing strings. Bezop truda v prom. 7 no.4:11-14 Ap 163. (MIRA 16:4)

1. Glavnyy geolog Gosudarstvennogo komiteta pri Sovete Ministrov UkrSSR po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru. (Gas well logging—Safety measures)

TKACHENKO, R. M., Cand Agr Sci -- (diss) "Agricultural engineering of the raising of early tomatoes on the open ground of the left-Bank forest steppes of the Uk3SR."

Khar'kov, 1958. 18 pp (Min of Agr US3R. Khar'kov Order of Labor Red Banner Agr Inst im V.V. Dokuchayev), 210 copies (EL, 41-58, 122)

- 30 -



tkacheńko, n.n.

Breeding work with sweet corn. Kons. i ev. prem. no.7:25-27 Jl '63. (MIRA 16:9)

1. Opytno-selektsionnaya stantsiya Vsesoyuznogo instituta rasteniyevcdstva v Krymske.

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TKACHENKO, N.N.; CHIZHOV, S.T.; MESHCHEROV, E.T.; TKACHEV, R.Ya.;

DANILOV, V.P.; KURZINA, I.A., red.; PROKOF'YEVA, L.N.,

tekhn. red.

[Cucumbers] Ogurtsy. [B]N.N.Tkachenko i dr. Moskva, Sel'khozizdat, 1963. 205 p. (MIRA 16:5)

(Cucumbers)

(MIRA 18:6)

## TKACHENKO, N.N. Effect of loading frequency on the fatigue strength of steel. Fiz.-khim. mekh. mat. 1 no.2:243 '65.

1. Fiziko-mekhanicheskiy institut AN UkrSSP, L'vov.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920007-5"

Similitude criteria of the process of mercury action on brass.

Fiz.-khim. mekh. mat. 1 no.2:142-143 '65. (MIRA 18:6)

1. Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov.

TKACHENKO, N.N.; VASILENKO, I.I.; KARPENKO, G.V.

Modeling the process of chemical dissolution of geometrically similar specimens. Fiz.-khim. mekh. mat. 1 no.2:144-146 '65.

(MIRA 18:6)

1. Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov.

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EPA(s)-2/EWT(m)/EVP(w)/EPF(c)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)IJP(c) JD/JW/JG/WB

ACCESSION NR: AP5019662

UR/0369/65/001/003/0355/0360

AUTHOR:

Tkachenko, N. N.; Vasilenko, I. I.; Karpenko, G. V.

TITLE: Fracture of copper alloys during tests in wercury salt solutions

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 3, 1965, 355-360

TOPIC TAGS: copper alloy, brass fracture, bronze fracture, mercury nitrate solution, embrittlement, brittle fracture, anodic polarization, cathodic polarization

ABSTRACT: The fracture of brass under the action of mercury is usually attributed to its embrittlement owing to the penetration of atoms of mercury. The attendant decrease in strength and plasticity is due to a more or less pronounced decrease in the specific free energy of the new surfaces that develop in the process of plastic deformation, as a result of the adsorption of mercury ions thereon as well as of the formation of amalgams. During tests of brass in solution of mercury nitrate, the diffusion penetration of mercury into brass may be accompanied by the dissolution of anodic sectors, which usually contributes to crack formation. Considering, however, that cathodic polarization from an external current source was absent

Card 1/4

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ACCESSION NR: AP5019662

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prior to fracture (although in many cases of corrosion cracking cathodic protection prolongs the time until fracture), it had been concluded (R. B. Mears, R. H. Brown, E. H. Dix, Symposium on Stress Corrosion Cracking of Metals, ASIM-AIME, 1944, 67-110) that the fracture of brass in solutions of mercury salts (in the absence of polarization) is due to the penetration of mercury into the metal. In this connection, to clarify the role of anodic processes, the authors investigated the effect of anodic and cathodic polarization, in the presence of different current densities, on the length of the period until the fracture of brass in mercury nitrate solutions. Cylindrical specimens of brass and aluminum bronze (7% Al. 2% Fe, 91% Cu) with uniformly pure surfaces were, after machining and 2 hr annealing in a vacuum (1.10-4 mm Hg) at 300°C, subjected to fracture tests and tensile tests in special machines while being immersed in a bath of 0.15% mercury nitrate solution. The time until fracture was determined from the instant the solution was poured into the tank. Control experiments without polarization from an external current source also were performed (the platinum electrode was removed from the bath). It was found that both anodic and cathodic polarization accelerated the embrittlement and fracture of the specimen, anodic polarization being particularly effective. In the case of brass this effect of mercury was more marked than in the

Card 2/4

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ACCESSION NR: AP5019662

Under conditions of the experiment, anodic polarization only partly prevented the deposition of mercury ions on the brass surface. At the same time it led to an intense dissolution of anodic sectors of the metal and thereby to the facilitation of crack formation in the surface layers, which were already embrittled by the penetrated mercury. A major role in accelerating the formation and development of cracks in the presence of anodic polarization is played by the selective nature of penetration of mercury into the metal — through the adsorptional migration over grain boundaries and over the outcropping surface dislocations and other structural defects. As a result of such a mercury penetration, the metal becomes strongly embrittled and, in addition, the heterogeneity of its structure is enhanced, thus apparently leading to an intensification of electrochemical processes. Thus, anodic polarization leads to a sharp decrease in strength and plasticity but only in the cases where the surface layers are embrittled by the mercury diffusing into them. Orig. art. has: 6 figures.

ASSOCIATION: Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov (Physico-Mechanical Institute, AN UkrSSR)

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MAKSIMOVICH, C.G.; YANCHIGHIN, F.P.; TKACHENKO, N.N.; NAGIRNYY, S.V.; BARAHETEKIY, V.S.

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Effect of round hole type stress concentrators on the mechanical characteristics of brass. Vilian. rab. sred na svois. mat. no.2: 56-60 163. (MIRA 17:10)

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ACCESSION NR: AP5019664

and aluminum was unchanged regardless of the current density even at a deformation rate as low as 0.007 mm/min. Thus, it can be concluded that standard size specimens of copper, zinc. and aluminum are not susceptible to hydrogen ambrittlement. Orig. art. has: 1 figure.

ASSOCIATION: Fiziko-mekhanisheskiy institut Ali TkrillP. Tv.v Physissmeshanical

Institute, AN UkrSSR;

SUBMITTED: 26Feb65

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Card

s/239/62/048/olo/004/004 1015/1215

AUTHOR:

Tkachenko, H.N.

TITLE:

A technique for the insertion of multiple electrodes

into various cortical regions of a cat's brain

PERMODICAL: Fiziologicheskiy zharnal SSSR im. I.M. Sechanova

v. 48, no. 10, 1962, 1279-1282

In order to earry out chronic experiments it is necessary to develop a pair and relatively simple technique of inserting multiple electrodes into various cortical regions. The technique described fits these requirements since it emphies the simultaneous insertion of 48 electrodes for chronic experiments 5 months and more) without apparent disturbances of the chimal's

Card 1/2

CIA-RDP86-00513R001755920007-5" APPROVED FOR RELEASE: 07/16/2001

5/239/62/048/010/004/004 1015/1215

A technique for the ....

well-being. It was found at autopsy (the animal was sacrificed after 5 months) that the contact plate which was made of plastic was actually implanted into the cranial bone and a scar tissue was formed around it. Modifications of the technique are being elaborated at present, in order to make it suitable for investigations of deeper layers of the cortex and of the subcortex. There are 4 figures.

ASSOCIATION: Hafedra fielologii cheloveka i chivotnykh Gosudaratvennogo universiteta, Rostov-na-Donu (Chair of Human and Animal Physiology. State University. Rostov-na-

Donu)

SUBMITTED: August 26, 1961

Card 2/2

USSR/Zooparasitology. Ticks and Insects in Disease Vectors. Mites.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77035.

Author : Gladkikh, S.G.; Shilova, S.A.; Tkachenko, N.N.;

Korovina, A.G.

Inst

: Results of Work of Conducting Anti-Tick Prophylaxis Title

in the Localized Region of Spring-Surmer Encephalitis.

Orig Pub: Tr. Tsentr. n.-i. dezinfekts. in-ta, 1957, vyp. 10,

226-233.

Abstract: No abstract.

Card : 1/1

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TKACHENKO, N. N., Cand of Agric Sci — (diss) "Obtention of cucumber hybrid seeds."

Moscow, 1957, 14 pp (Moscow Agricultural Academy im K. A. Timityazev), 110 copies

(KL, 29-57, 92)

TKACHENKO, N.N.; GOVOROV, N.V.

Make wider use of hybrid cucumber seeds in connercial plantations. Kons.i ov.prom. 14 no.2:32-34 F '59. (MIRA 12:3)

1. Opytno-selektsionnaya stantsiya v Krymske. (Cucumbers)